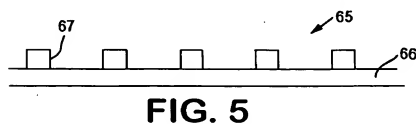
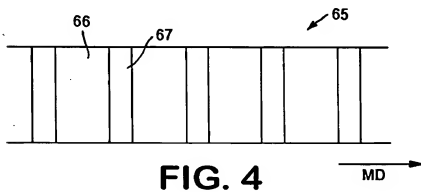
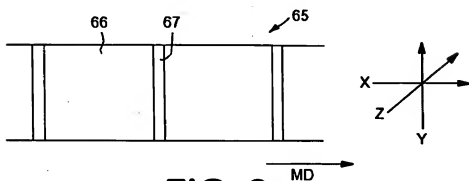
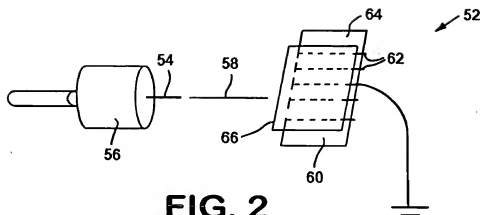


FIG. 1



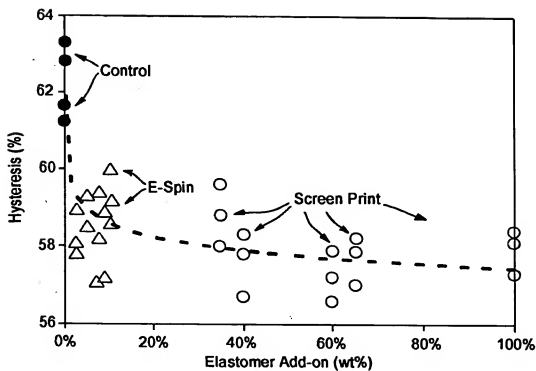


FIG. 6

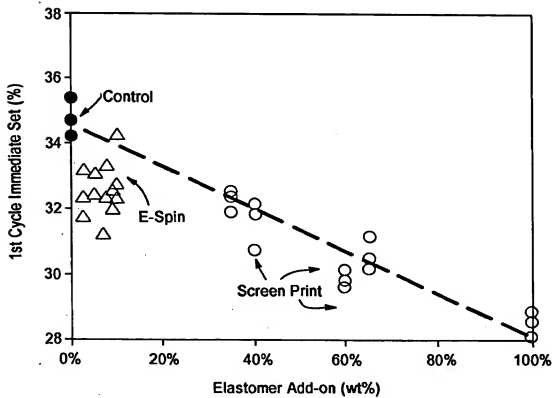


FIG. 7

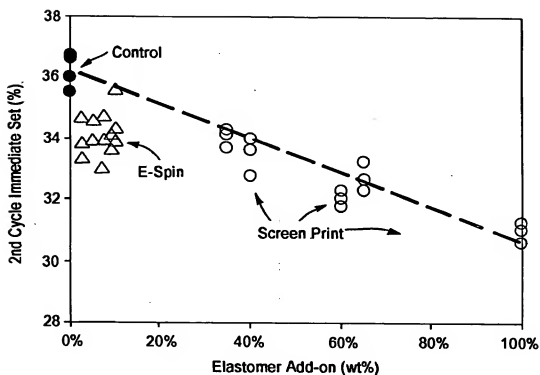


FIG. 8

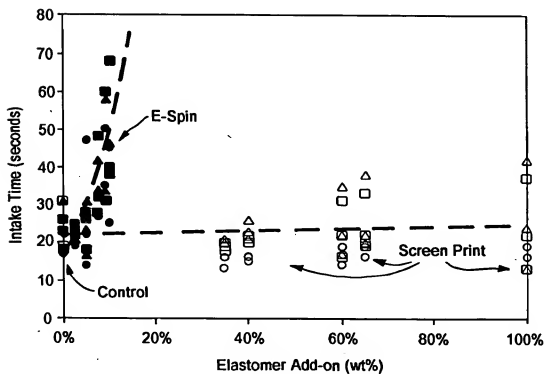


FIG. 9

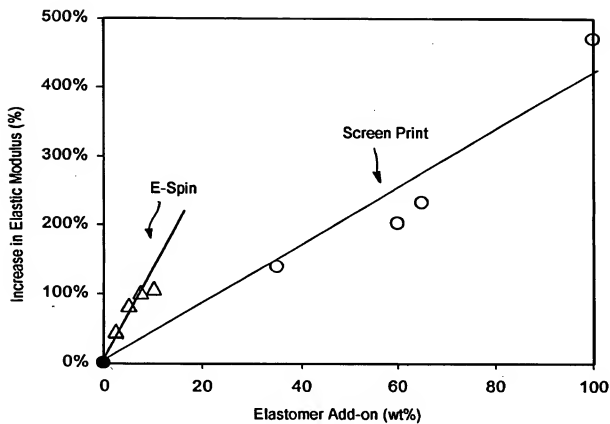


FIG. 10

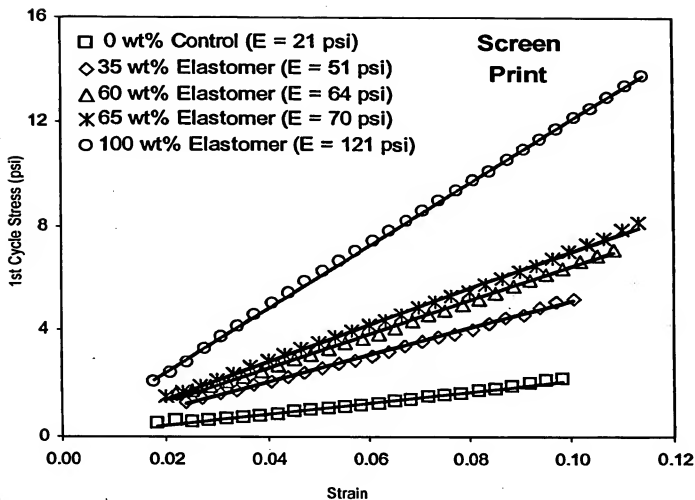


FIG. 11

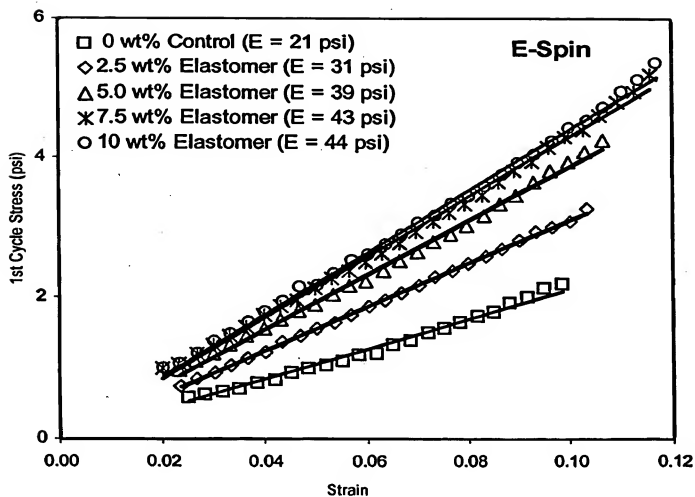


FIG. 12

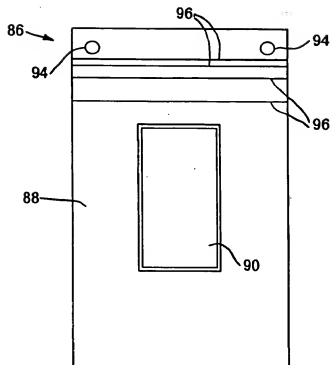


FIG. 13

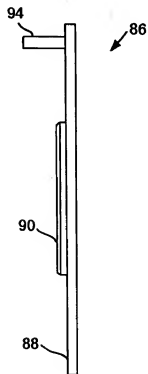


FIG. 14

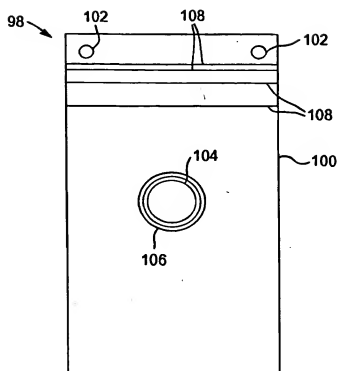


FIG. 15

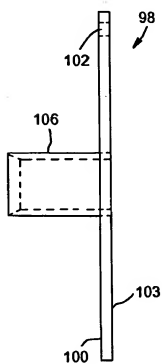


FIG. 16

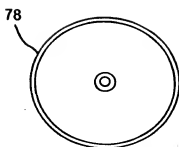


FIG. 17

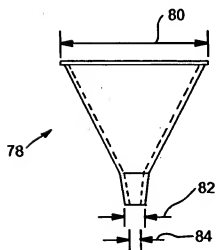


FIG. 18

Sym. No.	Kritan ad-son ad-1	Load @ 30 Up Cpe 1 g	Load @ 50 Up Cpe 1 g	Load @ 30 Un Cpe 1 g	Load @ 50 Un Cpe 1 g	Load @ 30 Up Cpe 2 g	Load @ 50 Up Cpe 2 g	Load @ 30 Un Cpe 2 g	Load @ 50 Un Cpe 2 g	TEA (Est) Cpe 1 g/mm	% Hydrat Loss Cpe 1 %	TEA (Est) Cpe 2 g/mm	% Hydrat Loss Cpe 2 %	Immed Set % Cpe 1 %	Immed Set % Cpe 2 %	Load Loss at 30s g
539	1 10.0%	262	854	-7	694	40	782	-11	667	0.09	0.037	0.09	0.037	34.324	35.629	218.654
	2 10.0%	591	1077	-8	883	86	992	-18	844	0.132	0.053	0.132	0.053	32.762	34.328	218.312
	3 10.0%	614	1161	-6	956	90	1068	-13	919	0.143	0.059	0.143	0.059	32.315	33.914	207.638
540	1 5.0%	162	664	-10	536	25	611	-14	514	0.066	0.025	0.066	0.025	35.658	37.13	226.497
	2 5.0%	396	861	-6	707	59	797	-10	680	0.102	0.042	0.102	0.042	33.075	34.616	211.208
	3 5.0%	498	934	-3	767	76	859	-9	738	0.116	0.048	0.116	0.048	32.447	33.969	210.292
541	1 2.5%	611	1107	-4	920	88	1025	-12	879	0.138	0.058	0.138	0.058	32.348	33.898	205.988
	2 2.5%	549	1057	0	867	86	971	-6	827	0.132	0.053	0.132	0.053	31.77	33.37	217.465
	3 2.5%	447	960	-6	787	61	896	-12	761	0.112	0.046	0.112	0.046	33.194	34.722	207.293
542	1 7.5%	531	1037	-3	846	76	956	-8	814	0.126	0.053	0.126	0.053	32.353	33.964	214.659
	2 7.5%	601	1113	2	919	101	1027	-6	885	0.144	0.062	0.144	0.062	31.253	33.019	204.361
	3 7.5%	444	903	-7	742	61	836	-12	712	0.107	0.043	0.107	0.043	33.349	34.769	211.468
543	1 9.0%	512	954	-1	777	83	873	-8	744	0.118	0.049	0.118	0.049	31.996	33.648	210.68
	2 9.0%	493	1084	-4	860	70	1004	-9	852	0.131	0.056	0.131	0.056	32.586	34.158	214.45
	3 9.0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 2

Mechanical Properties of Screen Printed Materials

	Elastomer Addition wt%	% Hyster Loss Op c 1 %	% Reduction vs Control %	Immed Set % Op c 1 %	% Reduction vs Control %	Immed Set % Op c 2 %	% Reduction vs Control %	Modulus of Elasticity psi	Improve vs Control %
Control	0%	83%	N/A	35%	N/A	36%	N/A	21	N/A
Sample 1sp	35%	81%	2%	32%	10%	34%	6%	51	140%
Sample 3sp	40%	80%	3%	32%	11%	33%	7%	-	-
Sample 5sp	60%	81%	3%	30%	16%	32%	11%	64	200%
Sample 2sp	65%	80%	4%	31%	14%	33%	9%	70	230%
Sample 4sp	100%	81%	2%	28%	20%	31%	14%	121	470%

Table 3

Mechanical Properties of E-Spin Materials

	Elastomer Addition wt%	% Hyster Loss Cyclic 1	% Reduction vs Control %	Initial Set % Cyclic 1 %	% Reduction vs Control %	Initial Set % Cyclic 2 %	% Reduction vs Control %	Modulus of Elasticity psi	% Improve vs Control %
Control	0%	83%	N/A	35%	N/A	36%	N/A	21	N/A
Sample Res	2.5%	81%	3%	32%	8%	34%	6%	31	40%
Sample Res	5%	80%	3%	34%	4%	35%	2%	39	80%
Sample Res	7.5%	81%	2%	32%	9%	34%	6%	43	100%
Sample Res	9%	80%	4%	32%	10%	34%	6%	-	-
Sample Res	10%	81%	2%	33%	6%	35%	4%	44	100%

Table 4